

Variable	Component Loadings (No Rotation)					Rotated Loading Matrix (VARIMAX)		
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3
AL_T	0.762994	-0.35448	0.14108	0.133165	-0.30382	0.780118	0.289109	0.33686
ALKALINITY	-0.23767	0.477327	0.553307	-0.4251	0.260595	-0.12573	-0.88273	-0.06895
AS_T	0.621505	-0.16739	0.330854	0.158935	0.02091	0.650751	0.033386	0.315109
BA_T	0.395053	-0.13582	0.506548	-0.02287	-0.41303	0.729394	-0.16465	-0.04145
CA_T	-0.29094	0.503975	0.597321	-0.42361	0.023101	-0.04891	-0.88738	-0.23627
CL COLIFORMS	-0.06174	0.852579	0.042251	0.102484	0.057532	-0.2168	-0.29871	-0.10719
	0.778721	-0.19473	-0.10534	-0.31506	0.215529	0.294064	0.028	0.833799
CU_T	0.817172	-0.04585	0.069691	0.19923	0.011442	0.592684	0.216214	0.509267
ECOLI	0.845285	-0.22315	-0.10678	-0.27157	0.239288	0.342426	0.072226	0.878928
ENTERO	0.782137	-0.23978	-0.05526	-0.23947	0.118753	0.392775	0.075648	0.748357
FE_T	0.798492	-0.3324	0.19867	0.110462	-0.26006	0.809395	0.226964	0.374727
FECAL K_T	0.777941	-0.19162	-0.10059	-0.35355	0.273023	0.264715	-0.01008	0.873996
	0.723541	0.517114	-0.08513	0.146619	-0.01466	0.29941	0.067937	0.468564
MG_T	0.541492	0.471633	0.275957	0.213462	0.157492	0.374618	-0.16877	0.288623
MN_T	0.65318	-0.2078	0.481111	0.122993	-0.03472	0.783395	-0.058	0.283396
N_NO2_N O3	0.048285	0.389857	-0.23461	-0.35474	-0.65028	-0.05797	-0.08805	-0.08872

NA_T	-0.09805	0.885692	-0.03859	0.17361	0.072029	-0.28385	-0.22209	-0.132
P_SOL_R								
EAC	0.692421	0.480394	-0.36995	-0.12606	-0.12093	0.08635	0.114264	0.58426
P_T_4500	0.785225	0.406986	-0.314	-0.02605	-0.12781	0.222308	0.181539	0.597505
P_TD_45								
00	0.701554	0.494922	-0.39146	-0.10365	-0.12971	0.084007	0.139745	0.583783
SO4	0.086502	0.654896	0.102724	0.423208	0.118729	0.016092	-0.05598	-0.10121
TDS	0.419385	0.554859	0.324621	-0.21679	-0.14801	0.31567	-0.46195	0.200067
TKN	0.491926	0.075892	-0.1252	0.053831	0.302305	0.102717	0.109652	0.517559
TOC	0.830215	0.052452	-0.03548	0.152078	0.211273	0.425945	0.187199	0.658914
ZN_T	0.687534	-0.10881	0.293106	0.132498	-0.04893	0.672363	0.042441	0.348594

		Rotated Loading Matrix (EQUAMA X)					Rotated Loading Matrix (QUARTI MAX)	
Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2
-0.10885	0.142351	0.758164	0.358778	0.222998	-0.08933	0.276609	0.669345	-0.18391
0.178381	-0.08664	-0.07924	-0.89212	-0.10179	0.159873	0.032052	-0.18454	0.23635
0.080667	-0.13805	0.643002	0.102149	-0.03148	0.136198	0.325614	0.576137	0.010817
-0.09746	0.178541	0.737176	-0.13262	0.159615	-0.11516	-0.04964	0.274588	-0.09499
0.153438	0.078733	-0.00202	-0.91598	0.017822	0.099952	-0.16149	-0.291	0.239099
0.751477	0.184014	-0.22245	-0.36021	0.262478	0.685398	-0.16851	-0.11421	0.790074
-0.11887	0.067281	0.281885	0.125511	0.237181	-0.08418	0.801613	0.854171	-0.22964
0.238626	0.015346	0.565093	0.284295	0.189558	0.275314	0.450188	0.766288	0.1415
-0.1028	0.034013	0.327162	0.177319	0.220624	-0.05787	0.846293	0.920088	-0.22524
-0.13218	0.078944	0.379172	0.169884	0.231534	-0.09911	0.712512	0.827503	-0.23733
-0.0869	0.113033	0.790141	0.302915	0.205517	-0.06177	0.32442	0.71094	-0.16574
-0.12667	0.038439	0.254826	0.091827	0.214989	-0.08669	0.851155	0.869845	-0.24073
0.651709	0.285201	0.265059	0.085811	0.495805	0.617978	0.338435	0.651506	0.586662
0.639127	-0.03956	0.361701	-0.14505	0.136216	0.652315	0.257362	0.485684	0.591728
0.029213	-0.13924	0.782324	0.017958	-0.04779	0.085507	0.309318	0.592782	-0.03488
0.05249	0.858092	-0.06783	-0.14493	0.808583	-0.11248	-0.2569	-0.05896	0.114099

0.807816 0.176048 -0.29467 -0.29229 0.259579 0.741431 -0.20377 -0.15201 0.846058

0.45939 0.551987 0.049032 0.126084 0.741387 0.381296 0.405289 0.65083 0.399632

0.467929 0.489365 0.181622 0.204251 0.691441 0.407141 0.423397 0.728082 0.395001

0.4829 0.563344 0.044444 0.149582 0.756902 0.402935 0.397906 0.655462 0.422089
0.789664 -0.05404 -0.00055 -0.09586 0.055907 0.779434 -0.14246 0.01175 0.79332

0.420827 0.357593 0.319667 -0.45823 0.4502 0.352162 0.138486 0.346651 0.426539

0.240158 -0.09794 0.083844 0.158582 0.066416 0.281794 0.491644 0.535812 0.157677

0.328946 -0.04674 0.396668 0.260109 0.172617 0.376515 0.603712 0.827394 0.215684

0.118789 -0.03003 0.660664 0.108363 0.086836 0.156239 0.332014 0.626885 0.048636

Rotated
Pattern
Matrix
(OBLIMIN
)

Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
-0.24605	0.538376	0.074287	0.094668	-0.09214	0.76012	0.301242	0.116858
0.860851	-0.04386	-0.07871	0.16545	0.076157	-0.09958	-0.92965	-0.10991
-0.00041	0.4203	-0.20186	0.161526	0.115549	0.618298	0.027306	-0.17727
0.158604	0.691576	0.11985	-0.20829	-0.1289	0.828504	-0.14869	0.153854
0.845063	0.112991	0.081595	-0.05508	0.032999	0.041381	-0.91292	0.062023
0.250056	-0.14123	0.162992	-0.134	0.70312	-0.19377	-0.26226	0.174042
0.074614	-0.10734	0.041288	0.879772	-0.17326	0.081811	-0.03677	0.039314
-0.16674	0.276482	-0.05559	0.310883	0.263432	0.498613	0.219339	-0.02146
0.035502	-0.09028	0.002412	0.905465	-0.14558	0.11932	0.0075	0.002748
0.01736	0.01742	0.045205	0.742584	-0.17377	0.215043	0.023766	0.051213
-0.18073	0.547809	0.04145	0.144387	-0.07425	0.78162	0.232921	0.082368
0.117837	-0.15119	0.015594	0.947983	-0.18503	0.037435	-0.0832	0.008957
-0.04373	0.047648	0.216938	0.29061	0.614863	0.201411	0.092244	0.254579
0.172774	0.185431	-0.10912	0.153423	0.640516	0.329725	-0.15597	-0.08358
0.088269	0.559174	-0.21108	0.121117	0.056039	0.776315	-0.06644	-0.18404
0.067508	0.054401	0.856767	-0.13769	-0.10841	0.000271	-0.04992	0.883546

0.168961 -0.19646 0.157536 -0.17335 0.773001 -0.26287 -0.17755 0.169763

-0.06909 -0.16956 0.510679 0.486518 0.359752 -0.05713 0.124584 0.54042

-0.13458 -0.06359 0.435363 0.448174 0.393101 0.084534 0.197032 0.471813

-0.09554 -0.17288 0.520705 0.474659 0.38562 -0.0598 0.153541 0.552286

0.009509 0.03026 -0.09811 -0.24692 0.827125 0.044964 -0.00499 -0.07479

0.459472 0.226519 0.305791 0.156288 0.305222 0.315424 -0.45917 0.327331

-0.05744 -0.16428 -0.12436 0.497386 0.2532 -0.04615 0.086267 -0.12155

-0.12305 0.054889 -0.10852 0.52581 0.349127 0.268747 0.173764 -0.08564

-0.00807 0.430385 -0.09878 0.175889 0.135603 0.636513 0.041412 -0.06863

Number of Variables						Coefficients (No Rotation)	
25						Variable	Factor 1
Component Loadings (No Rotation)						AL_T	0.079949
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	ALKALINITY	-0.0249
Variance Explained Percent of Total						AS_T	0.065124
Variance Explained	9.543479	4.543304	2.109552	1.356589	1.271687	BA_T	0.041395
						CA_T	-0.03049
Rotated Loadings (VARIMAX)						CL	-0.00647
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	COLIFORMS	0.081597
Variance Explained Percent of Total						CU_T	0.085626
Variance Explained	4.799268	2.302259	5.799436	3.903871	2.019776	ECOLI	0.088572
						ENTERO	0.081955
Rotated Loadings (EQUAMAX)						FE_T	0.083669
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	FECAL K_T	0.081515
Variance Explained Percent of Total							0.075815
Variance Explained	4.571267	2.717312	3.274747	3.48022	4.781065	MG_T	0.056739
						MN_T	0.068443
Rotated Loadings (QUARTIMAX)						N_NO2_N	
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	O3	0.005059
Variance Explained Percent of Total							
Variance Explained	9.00393	3.848742	2.019284	2.11981	1.832845		
Variance Explained	36.01572	15.39497	8.077135	8.479242	7.331379		

Rotated Loadings (OBLIMIN)	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5		
Variance Explained Percent of Total	4.762997	3.545355	4.039842	2.390707	2.000848	NA_T	-0.01027
Variance Explained	19.05199	14.18142	16.15937	9.562827	8.003391	P_SOL_R EAC	0.072554
EDA_Group =SW - Edge of Field =SW - Lake - Tenkiller =SW - Stream =SW - =SW - =SW - =SW -						P_TD_4500 SO4	0.082279
						TDS	0.073511
							0.009064
						TKN	0.043945
							0.051546
						TOC	0.086993
						ZN_T	0.072042

									Coefficien ts (VARIMA X)
Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	
-0.07802	0.066877	0.098162	-0.23891	0.221731	0.099028	-0.10954	-0.03477	0.107176	
0.105062	0.262286	-0.31336	0.204921	-0.03515	-0.44338	0.118848	-0.03986	-0.08427	
-0.03684	0.156836	0.117158	0.016443	0.167651	-0.01015	-0.03352	0.046087	-0.11285	
-0.02989	0.240121	-0.01686	-0.32479	0.295667	-0.09427	-0.18748	-0.07189	0.171512	
0.110927	0.28315	-0.31226	0.018166	0.042445	-0.42697	0.018574	-0.06436	0.051504	
0.187656	0.020029	0.075545	0.04524	-0.03565	-0.04473	-0.02624	0.198465	-0.00795	
-0.04286	-0.04993	-0.23224	0.169483	-0.09205	-0.11148	0.246475	-0.10784	-0.01923	
-0.01009	0.033036	0.146861	0.008998	0.107895	0.083956	0.001492	0.084833	-0.06546	
-0.04912	-0.05062	-0.20018	0.188166	-0.08561	-0.09116	0.248708	-0.09267	-0.04708	
-0.05278	-0.0262	-0.17652	0.093382	-0.03261	-0.0758	0.182441	-0.09975	0.004989	
-0.07316	0.094177	0.081426	-0.2045	0.222506	0.06359	-0.0921	-0.03265	0.081061	
-0.04218	-0.04768	-0.26062	0.214693	-0.11481	-0.13855	0.278258	-0.11438	-0.0427	
0.113819	-0.04035	0.108079	-0.01152	0.024455	0.064586	0.015276	0.161801	0.031025	
0.103808	0.130813	0.157352	0.123845	0.082266	-0.04017	-0.0023	0.196839	-0.15515	
-0.04574	0.228063	0.090663	-0.0273	0.225026	-0.06185	-0.06226	0.020273	-0.09489	
0.085809	-0.11121	-0.26149	-0.51135	0.038111	-0.03011	-0.11215	-0.13863	0.561659	

0.194944 -0.01829 0.127975 0.05664 -0.05426 0.007472 -0.03282 0.231109 -0.02326

0.105737 -0.17537 -0.09292 -0.09509 -0.07759 0.04643 0.089753 0.039947 0.216906

0.089579 -0.14885 -0.0192 -0.1005 -0.031 0.082807 0.058982 0.064826 0.17866

0.108934 -0.18557 -0.0764 -0.102 -0.07733 0.063466 0.083645 0.049832 0.220135

0.144145 0.048695 0.311965 0.093364 0.043469 0.092131 -0.08895 0.291285 -0.16166

0.122127 0.153881 -0.1598 -0.11639 0.09373 -0.21763 -0.01258 0.01442 0.151972

0.016704 -0.05935 0.039681 0.237719 -0.08765 0.023777 0.152926 0.080745 -0.16245

0.011545 -0.01682 0.112103 0.166136 0.005798 0.060199 0.104651 0.109492 -0.14681

-0.02395 0.138942 0.09767 -0.03847 0.173202 -0.00458 -0.04261 0.039814 -0.05165

Coefficients (EQUAMA X)					Coefficients (QUARTI MAX)			
Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4
0.216523	0.095741	0.082136	-0.04972	-0.13564	0.015253	-0.02782	-0.11138	0.249645
-0.00978	-0.42415	-0.07727	-0.03195	0.183433	0.035516	-0.0315	0.456472	-0.06464
0.168978	-0.00046	-0.104	0.068496	-0.0114	0.045215	0.039348	0.004456	0.154458
0.302042	-0.10109	0.115955	-0.10468	-0.20046	-0.03958	-0.04236	0.071946	0.36726
0.066564	-0.41915	0.029505	-0.08254	0.058666	-0.01139	-0.03953	0.427959	0.059311
-0.03814	-0.05701	0.017206	0.192922	-0.03452	-0.01835	0.202812	0.032802	-0.02512
-0.08595	-0.0862	0.011697	-0.09723	0.263137	0.148531	-0.12914	0.144974	-0.184
0.101752	0.088896	-0.04272	0.100463	-0.00052	0.065543	0.072012	-0.08663	0.08245
-0.08063	-0.06473	-0.01117	-0.07644	0.26766	0.155799	-0.11726	0.124632	-0.18303
-0.02832	-0.05534	0.024955	-0.09389	0.191744	0.125133	-0.1158	0.101234	-0.10293
0.219385	0.063554	0.060079	-0.04311	-0.10971	0.026285	-0.02721	-0.07403	0.242469
-0.10704	-0.10975	-0.00643	-0.09937	0.302148	0.161337	-0.13851	0.176159	-0.21848
0.015557	0.058242	0.062935	0.156293	-0.01107	0.053171	0.155057	-0.06966	0.007555
0.081485	-0.03624	-0.11588	0.222415	0.018829	0.048118	0.186695	0.03201	0.057725
0.229916	-0.05117	-0.09764	0.038724	-0.03522	0.038623	0.019618	0.053099	0.223466
0.035598	-0.06114	0.491441	-0.24298	-0.2099	-0.07114	-0.0935	0.017752	0.132227

-0.06014 -0.00752 0.007764 0.228431 -0.04599 -0.0241 0.232632 -0.02099 -0.0439

-0.08613 0.037687 0.234225 0.002863 0.034179 0.06497 0.039038 -0.03872 -0.09748

-0.04123 0.074196 0.197321 0.035165 0.006445 0.063723 0.061944 -0.07937 -0.04802

-0.08705 0.053415 0.238209 0.012197 0.024985 0.062837 0.048733 -0.0568 -0.09557

0.034204 0.080769 -0.12203 0.315214 -0.08558 -0.02069 0.284041 -0.11342 0.051035

0.102718 -0.22031 0.140648 -0.01764 -0.02078 0.020384 0.033516 0.212151 0.111604

-0.09049 0.038287 -0.11032 0.113786 0.172548 0.098141 0.053585 -0.00731 -0.16287

0.000384 0.072787 -0.09747 0.140567 0.116594 0.106176 0.08382 -0.05087 -0.06015

0.17347 0.001653 -0.04796 0.051109 -0.03289 0.042822 0.036934 -0.00242 0.16788

Coefficients
(OBLIMITS)

Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
0.089056	-0.03999	-0.0436	0.192529	0.091531	0.082139
-0.07643	0.071504	-0.00411	-0.00474	-0.39699	-0.06145
-0.12932	0.008401	0.044085	0.149172	-0.00701	-0.10721
0.150399	-0.10829	-0.07877	0.250184	-0.10257	0.138711
0.053718	-0.00055	-0.0376	0.052208	-0.39666	0.056969
-0.01534	-0.02842	0.191465	-0.04253	-0.07622	0.028272
-0.00603	0.200638	-0.06603	-0.02857	-0.04633	-0.01213
-0.07994	0.036357	0.082508	0.100621	0.080856	-0.0538
-0.03529	0.205534	-0.05225	-0.02331	-0.02708	-0.03741
0.012582	0.157799	-0.0667	0.01423	-0.0228	0.005407
0.063005	-0.02613	-0.03789	0.196651	0.061575	0.059799
-0.02704	0.22251	-0.06783	-0.04367	-0.06595	-0.03223
0.01913	0.033782	0.160821	0.026811	0.047091	0.057817
-0.17227	0.020107	0.193959	0.071101	-0.05382	-0.11628
-0.11455	-0.00853	0.019389	0.199294	-0.05564	-0.09546
0.563926	-0.08751	-0.13418	0.035779	-0.04426	0.516395

-0.03104 -0.0351 0.218916 -0.06356 -0.03268 0.016808

0.219385 0.07875 0.055038 -0.04479 0.049365 0.226309

0.175827 0.063337 0.073736 -0.00927 0.079029 0.188609

0.221955 0.074626 0.063127 -0.04611 0.063155 0.23006

-0.18082 -0.06039 0.26518 0.010293 0.039563 -0.11744

0.143554 0.003461 0.03073 0.09625 -0.20933 0.157705

-0.15956 0.124495 0.094245 -0.05597 0.042856 -0.13154

-0.15378 0.106269 0.117589 0.023054 0.071038 -0.11797

-0.06856 0.003222 0.038318 0.155027 -0.00358 -0.04947